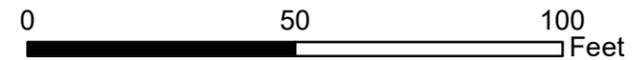


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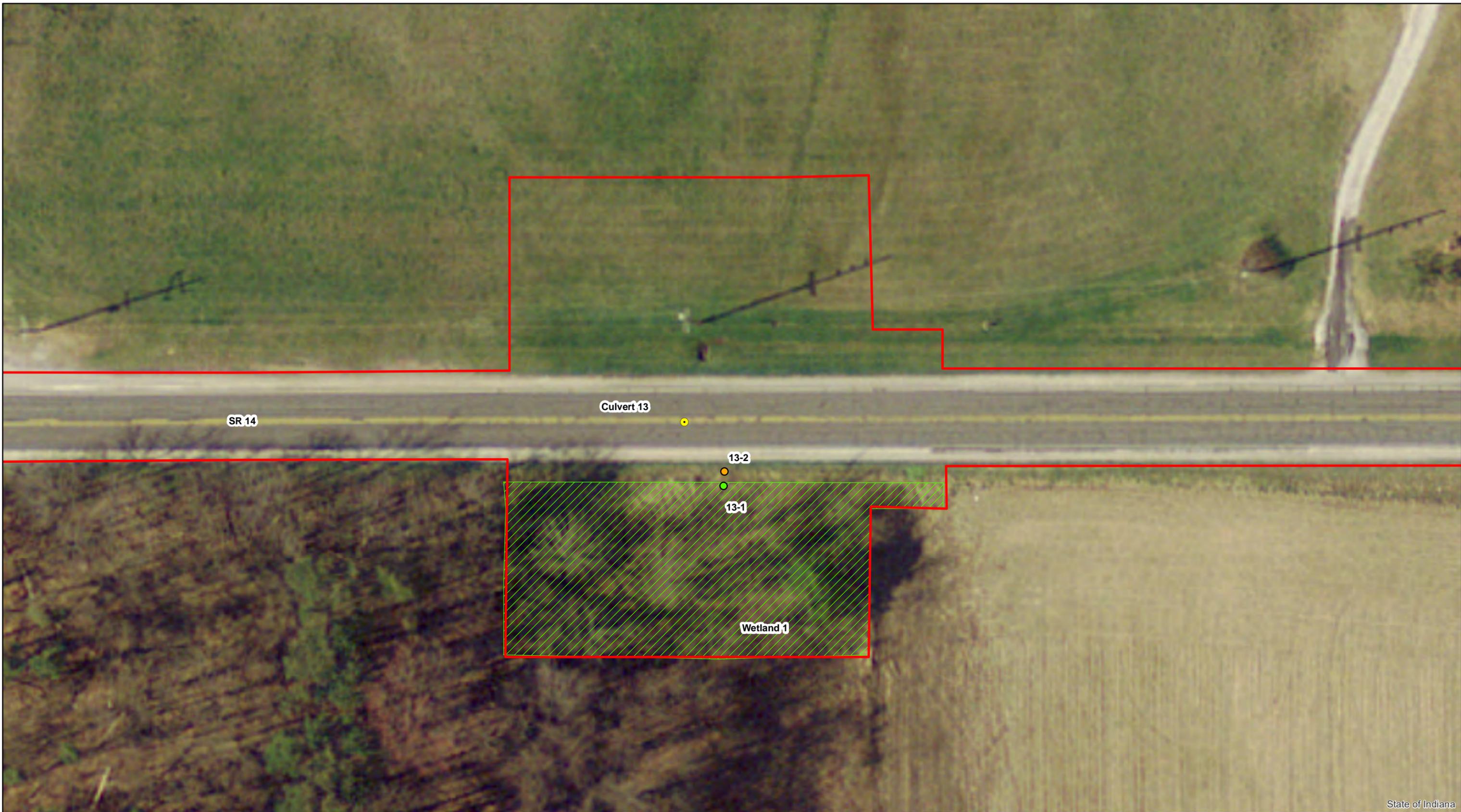
Figure 7
Water Resources Map
SR 14, Pavement and Culvert Work
Pulaski and Fulton County, IN
Des. 1800182

- Investigated Area
- Streams
- Upland Data Point
- Wetlands
- Wetland Data Point
- Culverts



Map Created: 10/23/2020

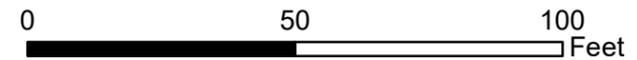




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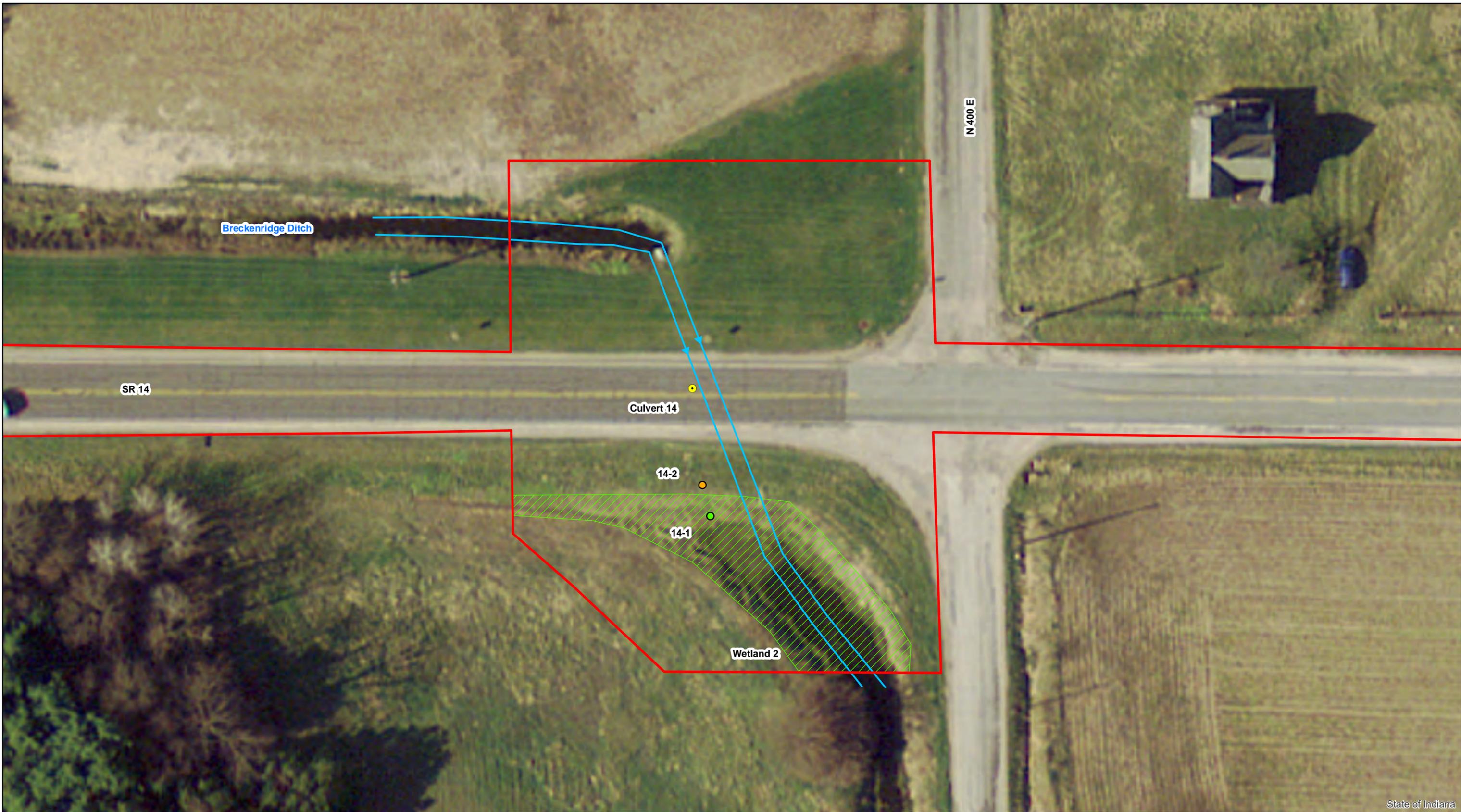
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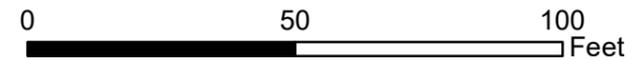




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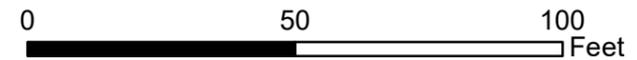




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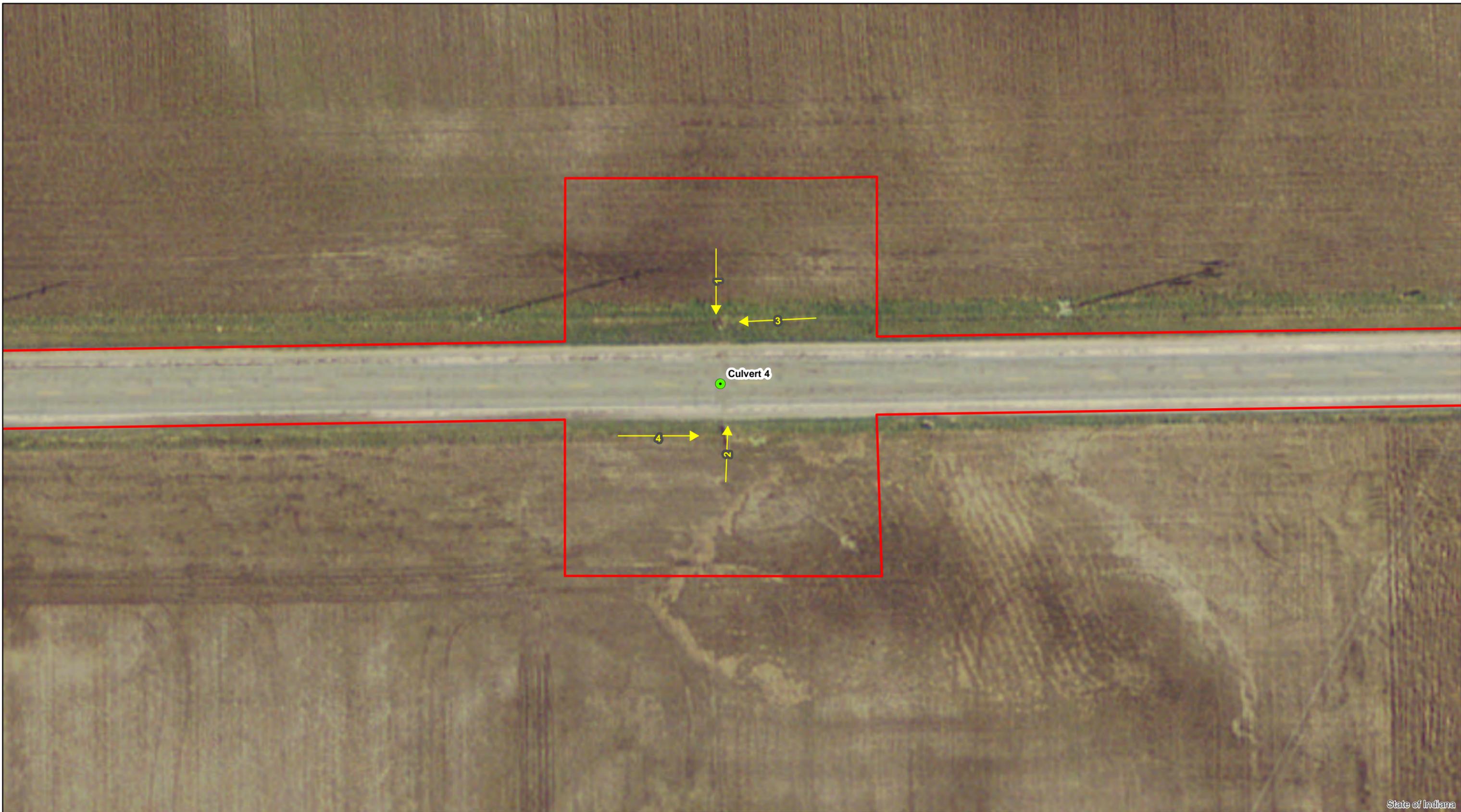
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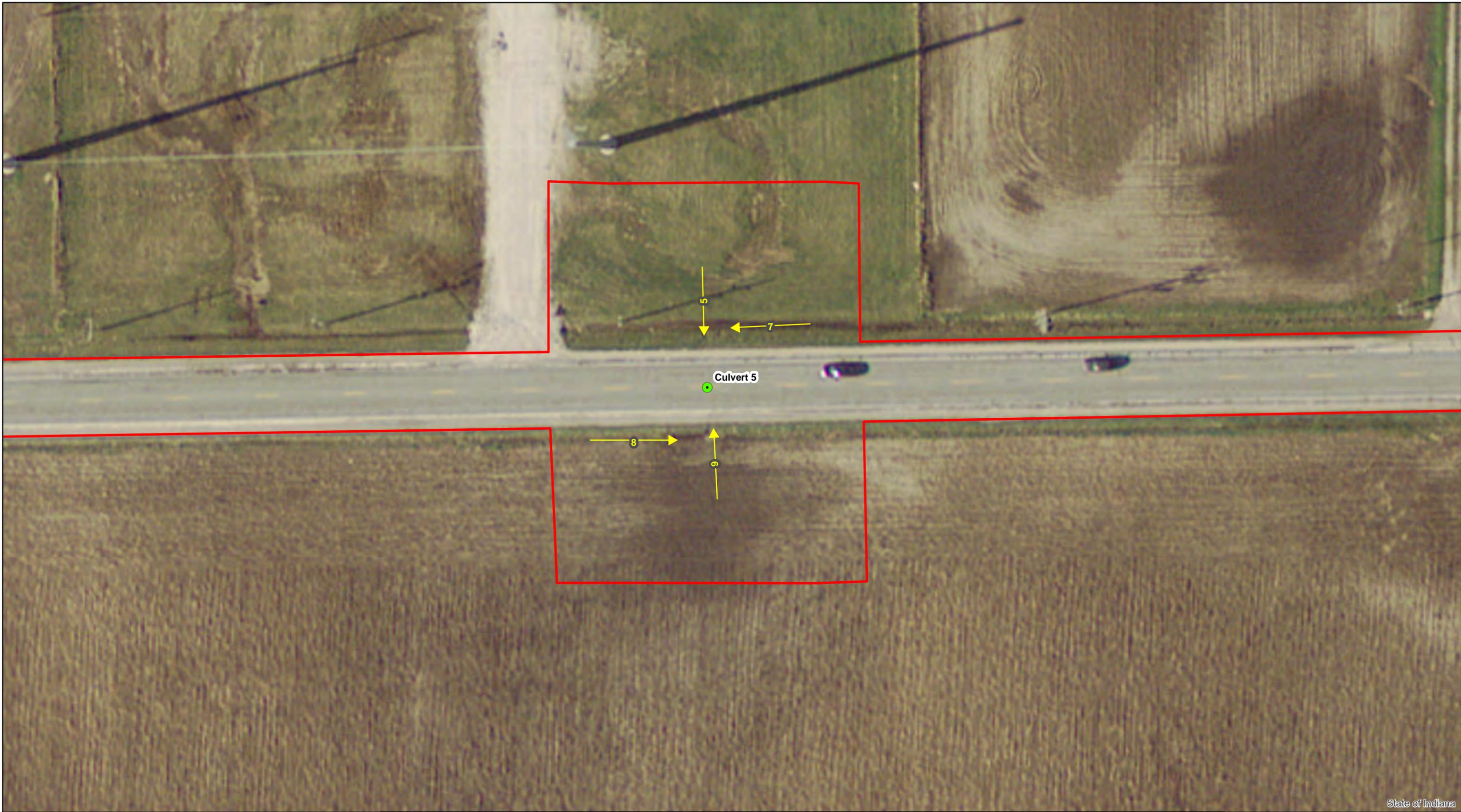
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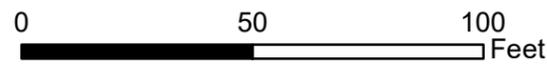




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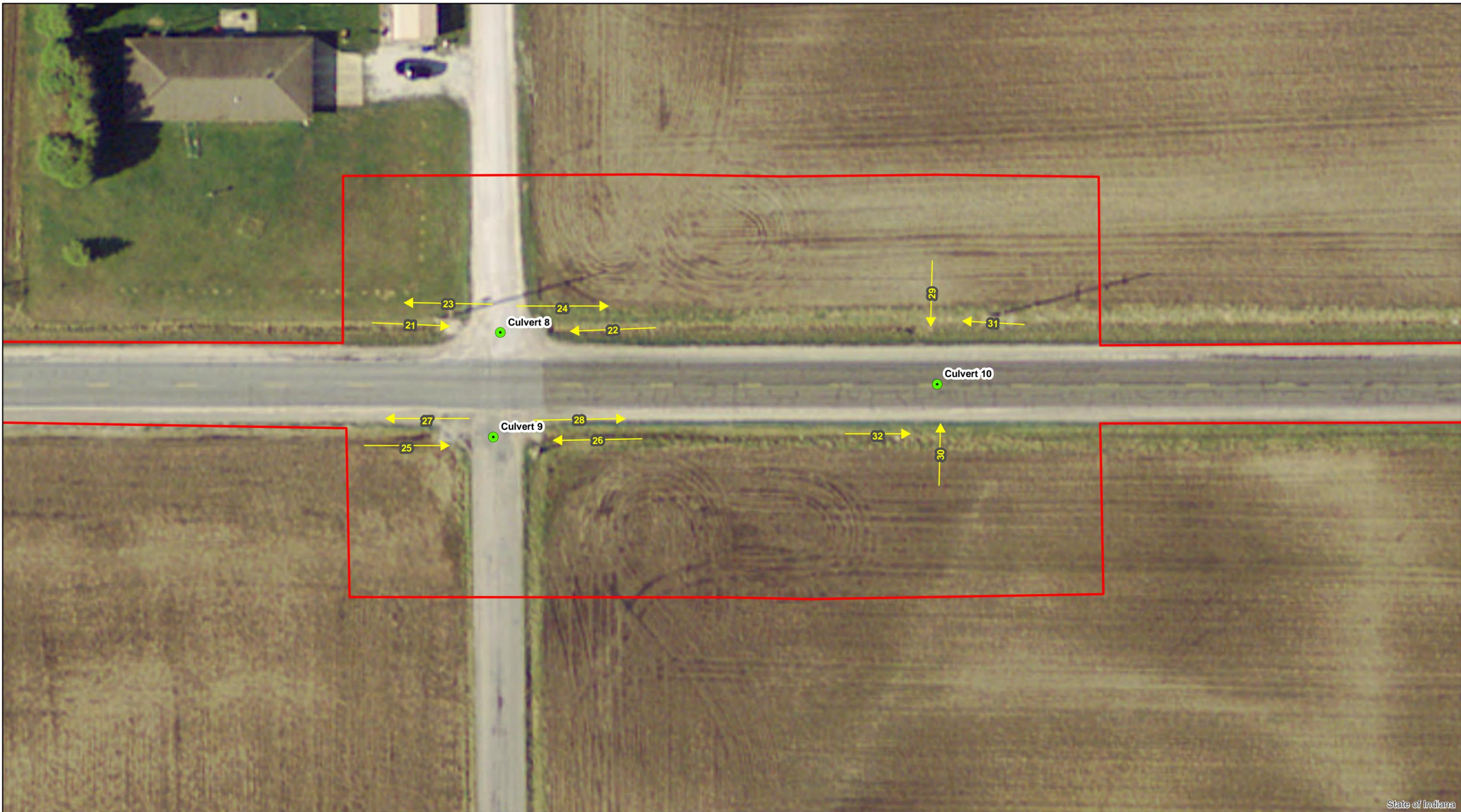
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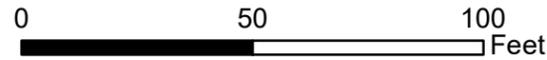




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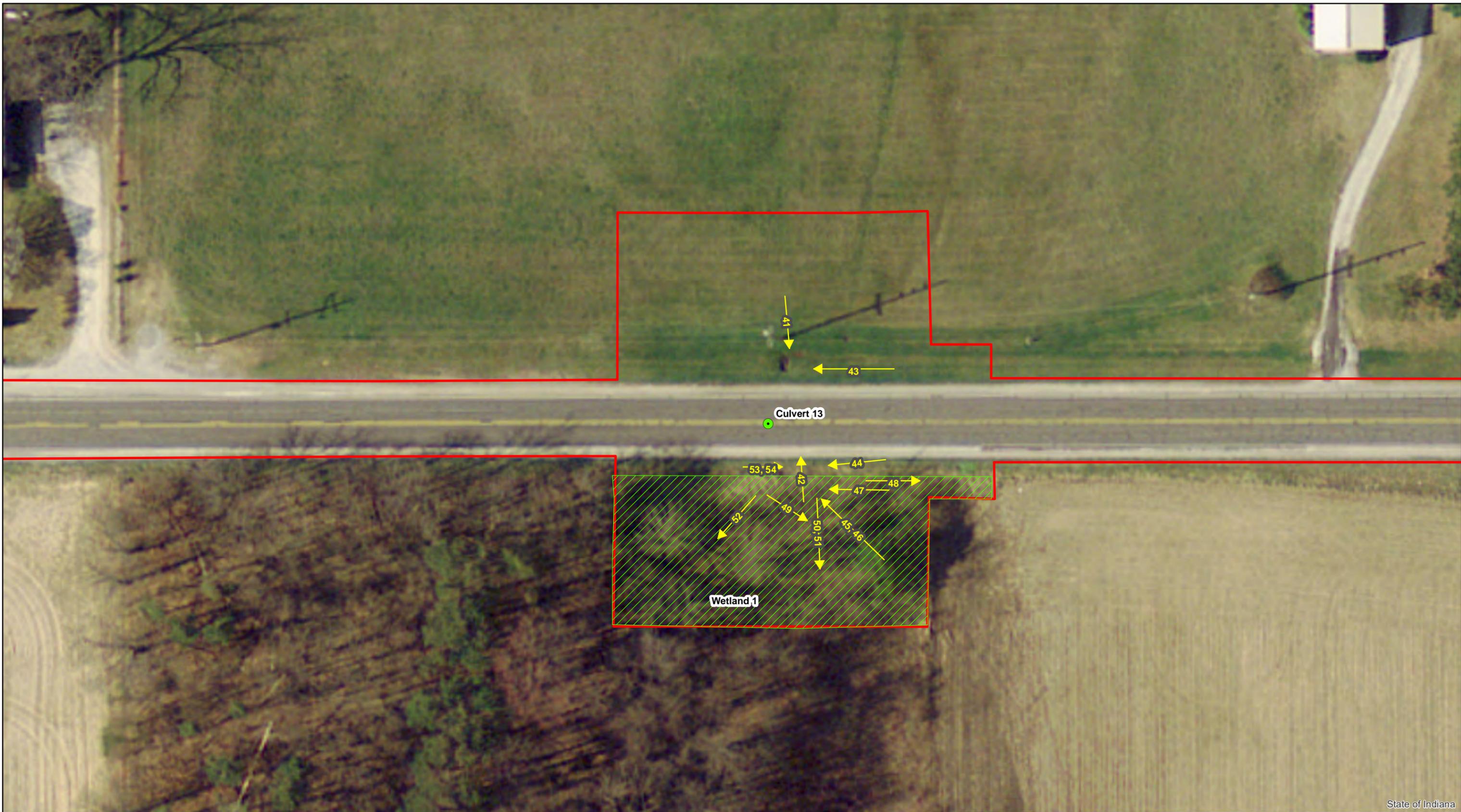
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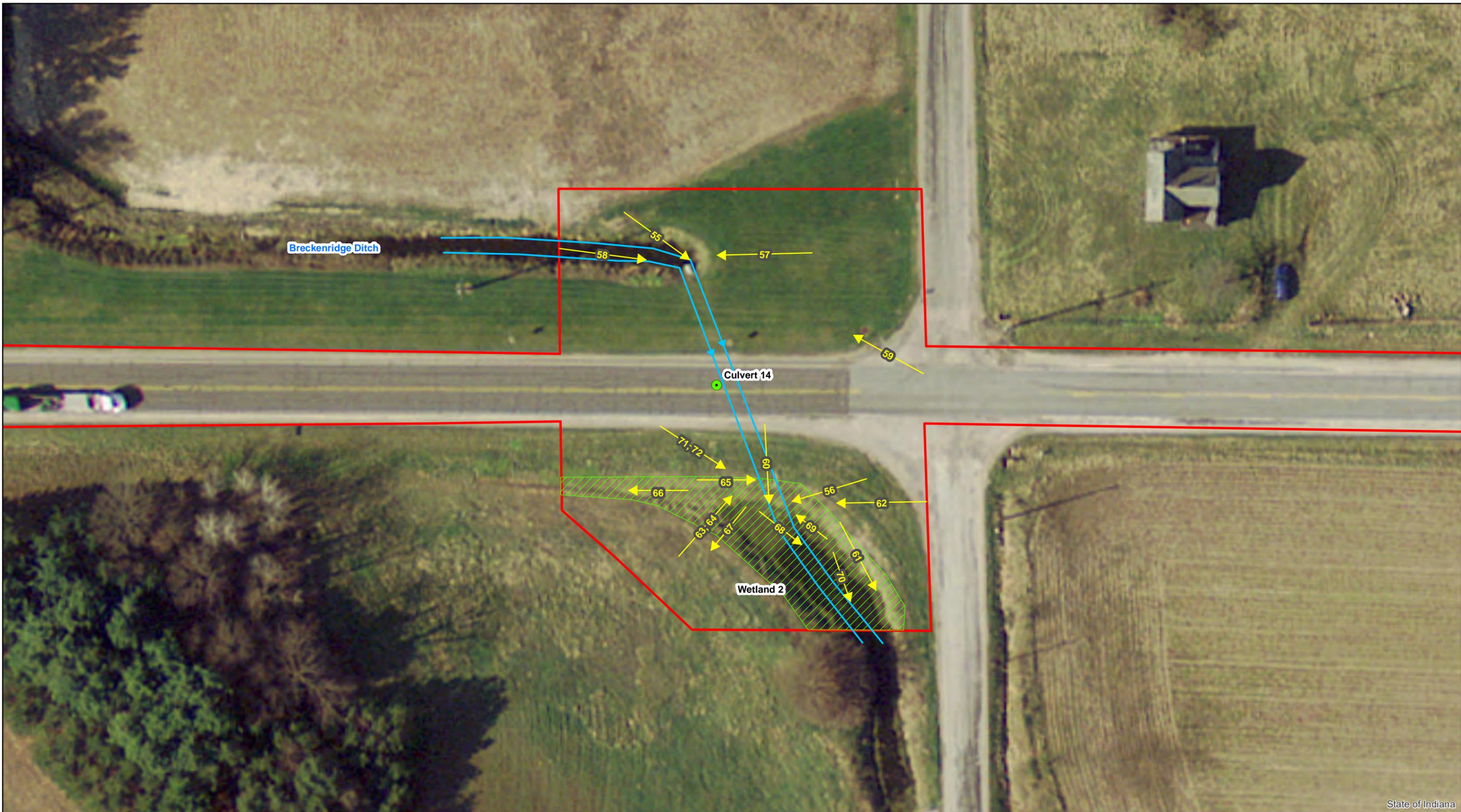
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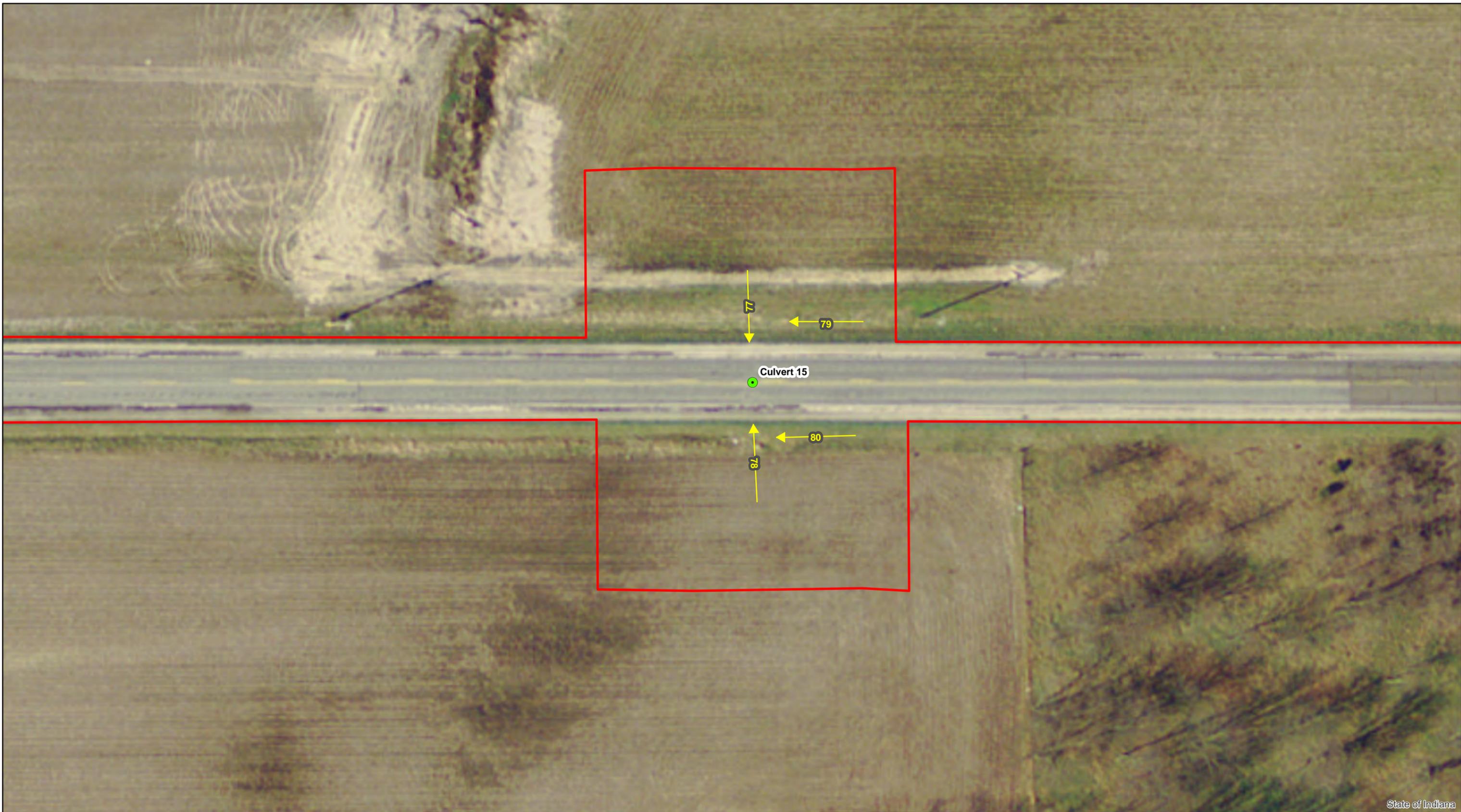
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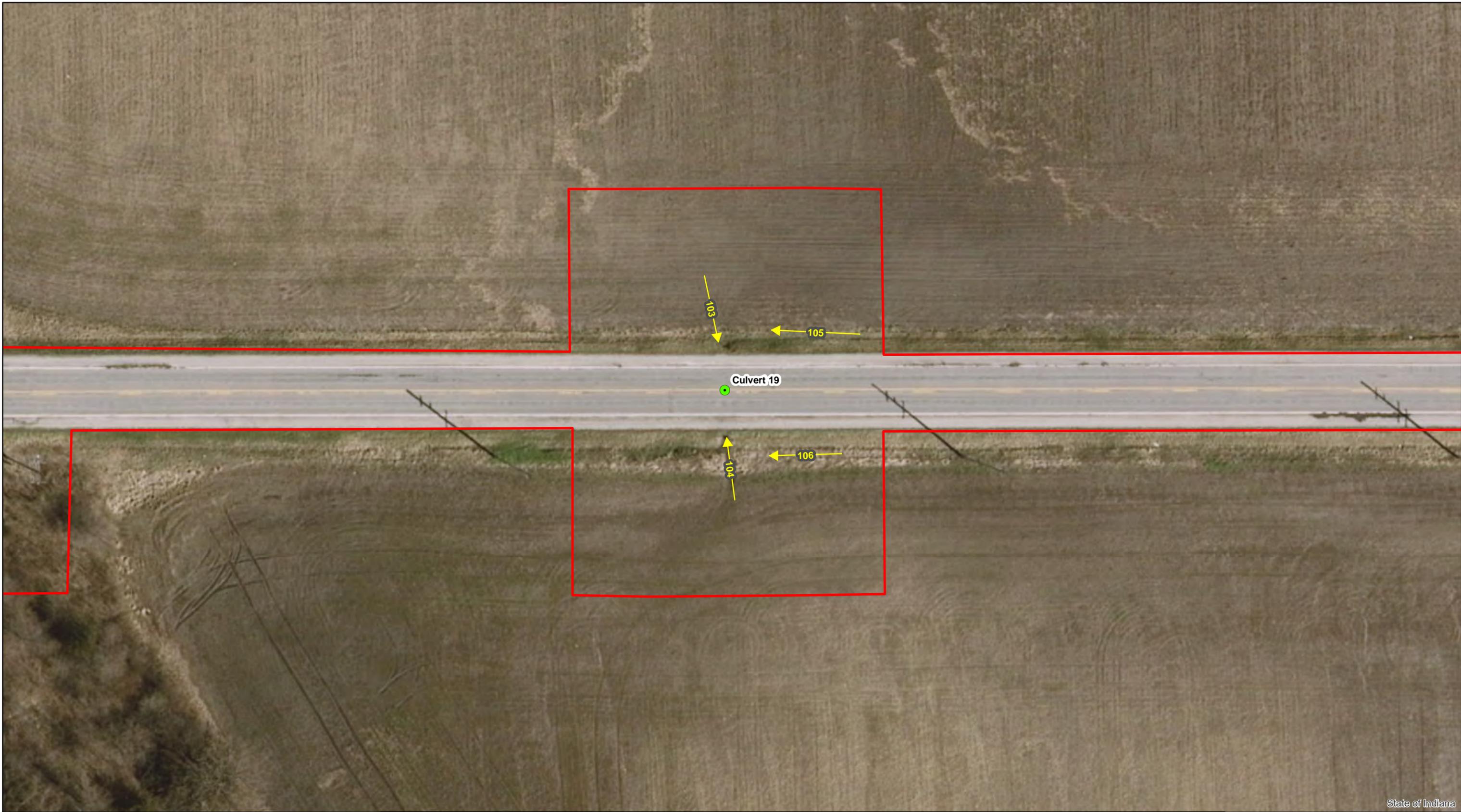
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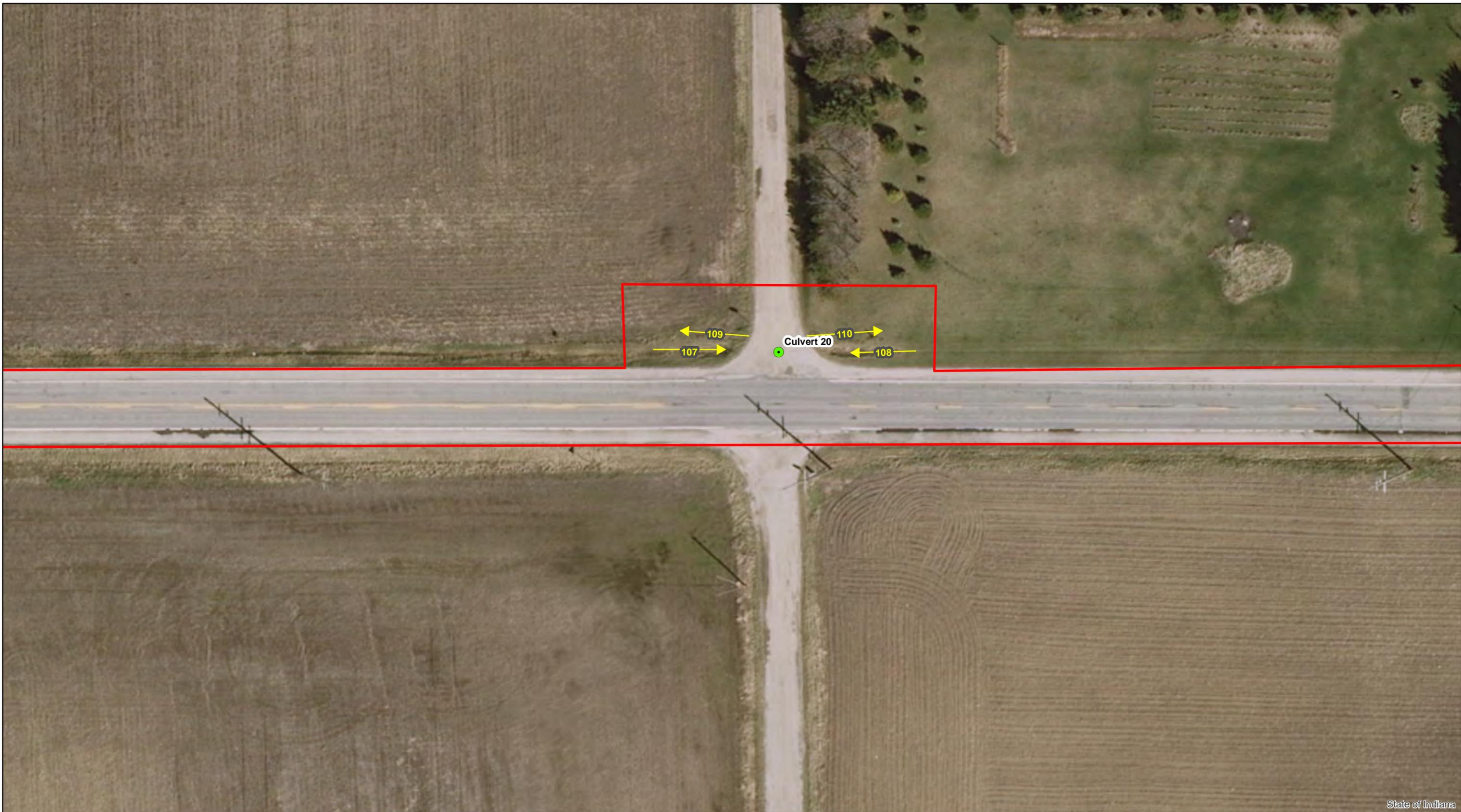
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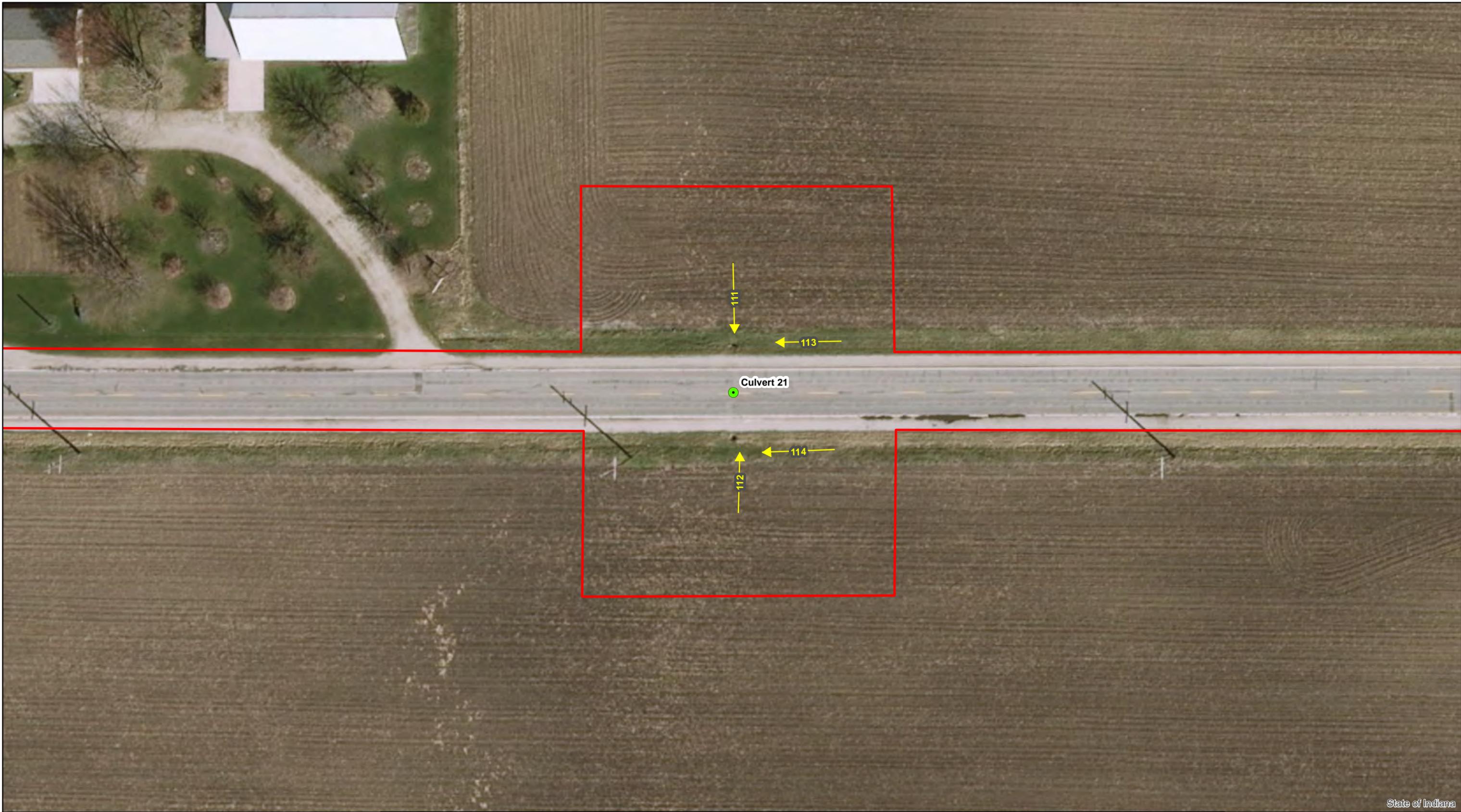
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1. Looking at north end of Culvert 4.



2. Looking at south end of Culvert 4.



3. Looking west from northeast quadrant of Culvert 4.



4. Looking east from southwest quadrant of Culvert 4.



5. Looking at north end of Culvert 5.



6. Looking at south end of Culvert 5.



7. Looking west from the northeast quadrant of Culvert 5.



8. Looking east from the southwest quadrant of Culvert 5.



9. Looking at north end (inlet) of Culvert 6 (Leidendecker Ditch).



10. Looking east at south end (outlet) of Culvert 6 (Leidendecker Ditch).



11. Looking west from northeast quadrant of Culvert 6 (Leidendecker Ditch) at banks.



12. Looking north upstream in Leidendecker Ditch from north side of SR 14. (10/7/20)



13. Looking at the inlet of the Culvert 6 (Leidendecker Ditch). (10/7/20)



14. Duckweed in Leidendecker Ditch. (10/7/20)



15. Looking north (upstream) from SR 14 at Culvert 6 (Leidendecker Ditch).



16. Looking south (downstream) from SR 14 at Culvert 6 (Leidendecker Ditch).



17. Looking at the north end of Culvert 7.



18. Looking at the south end of Culvert 7.



19. Looking west in the northeast quadrant of Culvert 7.



20. Looking east from southwest quadrant of Culvert 7.



21. Looking at the west end of Culvert 8.



22. Looking at the east end of Culvert 8.



23. Looking west from road at Culvert 8.



24. Looking east from road at Culvert 8.



25. Looking at west end of Culvert 9.



26. Looking at east end of Culvert 9.



27. Looking west from road at Culvert 9.



28. Looking east from road at Culvert 9.



29. Looking at the north end of Culvert 10.



30. Looking at the south end of Culvert 10.



31. Looking west from northeast quadrant of Culvert 10.



32. Looking east from southwest quadrant of Culvert 10.



33. Looking at the north end of Culvert 11.



34. Looking at the south end of Culvert 11.



35. Looking west from the northeast quadrant of Culvert 11.



36. Looking west from southeast quadrant of Culvert 11.



37. Looking at north end of Culvert 12.



38. Looking at south end of Culvert 12.



39. Looking west from northeast quadrant of Culvert 12.



40. Looking west from southeast quadrant of Culvert 12.



41. Looking at north end of Culvert 13.



42. Looking at the south end of Culvert 13.



43. Looking west from the northeast quadrant of Culvert 13.



44. Looking west from southeast quadrant of Culvert 13.



45. Wetland 1 soil slice. (10/7/2020)



46. Wetland 1 soil pit. (10/7/2020)



47. Looking west in Wetland 1. (10/7/2020)



48. Looking east in Wetland 1. (10/7/2020)



49. Looking southeast in Wetland 1. (10/7/2020)



50. Looking south into forested portion of Wetland 1. (10/7/2020)



51. Looking at the ground in Wetland 1. (10/7/2020)



52. Looking southwest in Wetland 1. (10/7/2020)



53. Wetland 1 upland soil. (10/7/2020)



54. Wetland 1 upland soil pit. (10/7/2020)



55. Looking at north end (inlet) of Culvert 14 (Breckenridge Ditch).



56. Looking at south end (outlet) of Culvert 14 (Breckenridge Ditch).



57. Looking west (upstream) from the northeast quadrant of Culvert 14 (Breckenridge Ditch).



58. Looking at northern end (inlet) of Culvert 14 (Breckenridge Ditch). (10/7/2020)



59. Inlet near N 400 E.



60. Looking southeast (downstream) from SR 14 at Culvert 14 (Breckenridge Ditch).



61. Looking south (downstream) from south side of Culvert 14 (Breckenridge Ditch).



62. Looking west from south end (outlet) of Culvert 14 (Breckenridge Ditch).



63. Wetland 2 soil slice. (10/7/2020)



64. Wetland 2 soil pit. (10/7/2020)



65. Facing east in Wetland 2. (10/7/2020)



66. Facing west in Wetland 2. (10/7/2020)



67. Facing southwest in Wetland 2. (10/7/2020)



68. Facing southeast in Wetland 2. (10/7/2020)



69. Looking at south end of Culvert 14. (10/7/2020)



70. Looking south in Wetland 2. (10/7/2020)



71. Wetland 2 upland soil. (10/7/2020)



72. Wetland 2 upland soil pit. (10/7/2020)



73. Looking at north end of Culvert 14A.



74. Looking at south end of Culvert 14A.



75. Looking east from the northwest quadrant of Culvert 14A.



76. Looking east from the southwest quadrant of Culvert 14A.



77. Looking at north end of Culvert 15.



78. Looking at south end of Culvert 15.



79. Looking west from the northeast quadrant of Culvert 15.



80. Looking west from the southeastern quadrant of Culvert 15.



81. Looking at the north drop inlet of Culvert 16.



82. South end of Culvert 16.



83. Looking east from northwestern quadrant of Culvert 16.



84. Looking east from southwest quadrant of Culvert 16.



85. Wetland 3 soil slice. (10/7/2020)



86. Wetland 3 soil pit. (10/7/2020)



87. Looking south in Wetland 3. (10/7/2020)



88. Looking west in Wetland 3. (10/7/2020)



89. Looking north in Wetland 3. (10/7/2020)



90. Looking east in Wetland 3. (10/7/2020)



91. Looking southeast in Wetland 3. (10/7/2020)



92. Looking southeast in Wetland 3. (10/7/2020)



93. Wetland 3 upland soil. (10/7/2020)



94. Wetland 3 upland soil pit. (10/7/2020)



95. Looking at north end of Culvert 17.



96. Looking at south end of Culvert 17.



97. Looking west from the northeast quadrant of Culvert 17.



98. Looking east from the northwest quadrant of Culvert 17.



99. Looking at north end of Culvert 18.



100. Looking at south end of Culvert 18.



101. Looking west from northeast quadrant of Culvert 18.



102. Looking west from the southeast quadrant of Culvert 18.



103. Looking at north end of Culvert 19.



104. Looking at south end of Culvert 19.



105. Looking west from northeast quadrant of Culvert 19.



106. Looking west from southeast quadrant of Culvert 19.



107. Looking at west end of Culvert 20.



108. Looking at east end of Culvert 20.



109. Looking west from Culvert 20.



110. Looking east from Culvert 20.



111. Looking at north end of Culvert 21.



112. Looking at south end of Culvert 21.



113. Looking west from the northeast quadrant of Culvert 21.



114. Looking west from southeast quadrant of Culvert 21.



115. Looking at north end of Culvert 22.



116. Looking at south end of Culvert 22.



117. Looking west from northeast quadrant of Culvert 22.



118. Looking west from southeast quadrant of Culvert 22.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 13 City/County: Pulaski County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 13-1
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: Section 16, T30N, R1W
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none
 Slope (%): 0 Lat: 41.055608 Long: -86.529618 Datum: NAD 83
 Soil Map Unit Name: Goodell-Gilford fine sandy loams, 0 to 1 percent slopes (Gmna) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>5 ft. diam.</u>)				
1. <u>Phalaris arundinacea</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Schedonorus arundinaceus</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Phragmites australis</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 13-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10 YR 2/2	100					SL	
10-20	10 YR 2/1	95	10 YR 4/6	5	C	PL	SL	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					² Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicators:						Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)			<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)		
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____		
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
Field Observations:			
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 13 City/County: Pulaski County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 13-2
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: S16, T30N, R1W
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 30 Lat: 41.055624 Long: -86.529616 Datum: NAD 87
 Soil Map Unit Name: Goodell-Gilford fine sandy loams, 0 to 1 percent slopes (Gmna) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>5 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Schedonorus arundinaceus</u>	<u>50</u>	<u>Y</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>50</u>	x 2 = <u>100</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>50</u>	x 4 = <u>200</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>300</u> (B)
Prevalence Index = B/A = <u>3</u>	

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 ___ 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 14 City/County: Pulaski County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 14-1
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: S16, T30N, R1W
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave
 Slope (%): 2 Lat: 41.055532 Long: -86.526351 Datum: NAD 87
 Soil Map Unit Name: Brookston loam, 0 to 1 percent slopes (BuuA) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					
Herb Stratum (Plot size: <u>5 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Juncus effusus</u>	<u>30</u>	<u>Y</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is ≤3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Equisetum hymenale</u>	<u>10</u>	<u>N</u>	<u>FACW</u>		
3. <u>Verbena hastata</u>	<u>10</u>	<u>N</u>	<u>FACW</u>		
4. <u>Lythrum salicaria</u>	<u>5</u>	<u>N</u>	<u>OBL</u>		
5. <u>Eupatorium perfoliatum</u>	<u>5</u>	<u>N</u>	<u>OBL</u>		
6. <u>Typha latifolia</u>	<u>2</u>	<u>N</u>	<u>OBL</u>		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
<u>62</u> = Total Cover					
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
2. _____	_____	_____	_____		
_____ = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: 14-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10 YR 2/2	100					SL	High organics
6-20	Gley1 6/10Y	99	10 YR 4/6	1			S	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					² Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicators:			<input checked="" type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)			Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)						<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)		
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____		
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input checked="" type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
Field Observations:			
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 15	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 0	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 14 City/County: Pulaski County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 14-2
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: S16, T30N, R1W
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 15 Lat: 41.055565 Long: -86.526362 Datum: NAD 87
 Soil Map Unit Name: Brookston loam, 0 to 1 percent slopes (BuuA) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>5 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Hemerocallis fulva</u>	<u>50</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Solidago canadensis</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Euthamia graminifolia</u>	<u>20</u>	<u>N</u>	<u>FACW</u>	
4. <u>Equisetum hymenale</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
5. <u>Daucus carota</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
6. <u>Oenothera biennis</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>121</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>25</u>	x 2 = <u>50</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>41</u>	x 4 = <u>164</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>121</u> (A)	<u>489</u> (B)
Prevalence Index = B/A = <u>4.0</u>	

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 ___ 2 - Dominance Test is >50%
 ___ 3 - Prevalence Index is ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	
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Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 16 City/County: Fulton County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 16-1
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: S18, T30N, R1E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none
 Slope (%): 0 Lat: 41.055106 Long: -86.455852 Datum: NAD 87
 Soil Map Unit Name: Arian muck, drained, 0 to 1 percent slopes (Ad) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Agricultural Field-No Row crops planted in this area. Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Cornus racemosa</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>5 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Panicum rigidulum</u>	<u>90</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Echinochloa crus galli</u>	<u>20</u>	<u>N</u>	<u>FACW</u>	
3. <u>Persicaria lapathifolium</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
4. <u>Abutilon theophrasti</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
5. <u>Xanthium strumarium</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 ___ 3 - Prevalence Index is ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: SR 14 - Culvert 16 City/County: Fulton County Sampling Date: 10/7/2020
 Applicant/Owner: INDOT State: IN Sampling Point: 16-2
 Investigator(s): V. Flynn/K. Bollmann Section, Township, Range: S18, T30N, R1E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 10 Lat: 41.055156 Long: -86.455833 Datum: NAD 87
 Soil Map Unit Name: Arian muck, drained, 0 to 1 percent slopes (Ad) NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Previous 3 month period was drier than average based on rainfall data near Winamac 2SSE weather station from 1971-2020 (AgACIS, 2020)	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft. diam.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15 ft. diam.</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>5 ft. diam.</u>)				
1. <u>Schedonorus arundinaceus</u>	<u>100</u>	<u>Y</u>	<u>FACU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: <u>15 ft. diam.</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>100</u>	x 4 = <u>400</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>400</u> (B)
Prevalence Index = B/A = <u>4</u>	

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 ___ 2 - Dominance Test is >50%
 ___ 3 - Prevalence Index is ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?	Yes _____ No <input checked="" type="checkbox"/>
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Remarks: (Include photo numbers here or on a separate sheet.)

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:

Map: _____.

Data sheets prepared/submitted by or on behalf of the PJD requestor.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report. Rationale: _____.

Data sheets prepared by the Corps: _____.

Corps navigable waters' study: _____.

U.S. Geological Survey Hydrologic Atlas: _____.

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: _____.

Natural Resources Conservation Service Soil Survey. Citation: _____.

National wetlands inventory map(s). Cite name: _____.

State/local wetland inventory map(s): _____.

FEMA/FIRM maps: _____.

100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): _____.

or Other (Name & Date): _____.

Previous determination(s). File no. and date of response letter: _____.

Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory staff member
completing PJD

Krista Bollmann

Signature and date of 10/27/2020
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.